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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,232	11/12/2003	Kevin Kremeyer	24847-017	3542
75	90 02/13/2006		EXAM	INER
MCDERMOTT, WILL & EMERY			SWIATEK, ROBERT P	
600 13th Street, Washington, De			ART UNIT PAPER NUMBER	
			3643	
			DATE MAILED: 02/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/705,232	KREMEYER, KEVIN			
		Examiner	Art Unit			
		Robert P. Swiatek	3643			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHI( - Exte after - If NO - Fails Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES IN THE MAILING DATES IN THE MAILING DATES IN THE MAILING DATES IN THE MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 23 No	ovember 2005				
·	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)	,_					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-76</u> is/are pending in the application.  4a) Of the above claim(s) <u>1-28,36-42,50,51 and</u> Claim(s) <u>29-35,43-49,53-58 and 60-66</u> is/are all  Claim(s) <u>52, 59</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	<u>f 67-76</u> is/are withdrawn from cor llowed.	nsideration.			
Applicat	ion Papers					
	The specification is objected to by the Examiner	r				
	The drawing(s) filed on is/are: a) ☐ acce		Examiner.			
	Applicant may not request that any objection to the o					
	Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex-	aminer. Note the attached Office	Action or form PTO-152.			
Priority (	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen		_				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da				
3) 🔲 Infori	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		atent Application (PTO-152)			

Applicant's arguments urging rejoinder of the withdrawn claims in this application are

Page 2

unpersuasive; the reasons set forth in the restriction requirement mailed 15 March 2005 and

reiterated and made final in the Office action mailed 23 August 2005 are believed to be valid and

not capricious. Accordingly, claims 1-28, 36-42, 50, 51, 67-76 stand withdrawn.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one prior to the date of application for a that is the LL is 1.50.

sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 52, 59 are rejected under 35 U.S.C. 102(b) as being anticipated by Schoppe (US

3,620,484: Ref. on sheet 1 of the Information Disclosure Citation filed 12 November 2003).

The Schoppe patent discloses a device and method for reducing shock waves created by a body

moving through a fluid; specifically, by a flying body moving supersonically through air. As

shown in Figure 3 of Schoppe, a flying body 10 includes a narrow gas tube 20 extending

forwardly into an airflow surrounding the body 10. Hydrogen gas 26 is forced through the tube

20, emerging from holes at the end of the pipe and subsequently being ignited by a spark plug

device 34. Between the point of ignition and the forward surface of the body 10-along this

short, extended path—heat and light are emitted, forming a volume of heated fluid that would

expand outwardly, albeit narrowly, from the path. The heating of the fluid—air—would occur

substantially instantaneously upon ignition of the hydrogen, and the slipstream would direct the

Application/Control Number: 10/705,232 Page 3

Art Unit: 3643

burning air rearwardly and parallel to the direction of travel of the flying body. The heated cone

of fluid 30' (see Figure 4 of Schoppe), being of less density than the ambient air and enveloping

the forward extent of the flying body 10, consequently would produce less drag on the body.

The cross-sectional area of the fluid through which the cone 30' continuously passes is deemed

to constitute an "aerodynamic window."

Applicant's arguments filed 23 November 2005 have been fully considered but they are

not persuasive. Claims 52, 59 are not believed allowable for the reasons set forth above.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Summary: Claims 1-28, 36-42, 50, 51, 67-76 have been withdrawn; claims 29-35, 43-49,

53-58, 60-66 have been allowed; claims 52, 59 have been rejected.

RPS: **©**571/272-6894

6 February 2006

PRIMARY EXAMINER

Robert P. Swiatek

ART UNIT 383 3643